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1 Representing internet streaming media metadata using MPEG-7 multimedia description schemes 

Eric Rehm
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**
Publisher: ACM Press
Full text available:  pdf(603.51 KB) Additional Information: full citation, abstract, references, index terms

Singingfish.com uses MPEG-7 description schemes to model the metadata characteristics of Internet streaming media. Further it has used MPEG-7 description schemes as the basis for a number of internal experiments, processes, as well as interchange with commercial content partners. This paper describes our selection of description schemes from the MPEG-7 Multimedia Description Schemes (MDS) Working Drafts, their ability (or lack thereof) to represent Internet streaming media metadata, and our e ...

Keywords: MPEG-7, multimedia, search engine, streaming media

2 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment 

Barron C. Housel, George Samaras, David B. Lindquist
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4
Publisher: Kluwer Academic Publishers
Full text available:  pdf(338.35 KB) Additional Information: full citation, abstract, references, citations, index terms

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

3 Bibliography of recent publications on computer communication 

Martha Steenstrup
January 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 1
Publisher: ACM Press

Full text available: [!\[\]\(3dfb8d66e81160ad61421a3452093d1b_img.jpg\) pdf\(2.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The quantitative results presented in our SIGCOMM '97 paper [1] include numerous minor errors. These errors were caused by programming bugs that led to faulty analyses and simulations, and by inaccurate transcriptions during the preparation of the paper. Here we present corrected figures and tables, as well as corrections to values that appeared in the text of the original paper. The effect of correcting the errors is to reduce the differences between the results based on the proxy trace and the ...

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Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [next](#)Relevance scale **1 Collaborating on referring expressions**

Peter A. Heeman, Graeme Hirst

September 1995 **Computational Linguistics**, Volume 21 Issue 3**Publisher:** MIT Press

Full text available:

[pdf\(2.34 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)[Publisher Site](#)

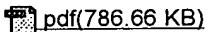
This paper presents a computational model of how conversational participants collaborate in order to make a referring action successful. The model is based on the view of language as goal-directed behavior. We propose that the content of a referring expression can be accounted for by the planning paradigm. Not only does this approach allow the processes of building referring expressions and identifying their referents to be captured by plan construction and plan inference, it also allows us to a ...

2 Engineering and scientific applications: Numerical database management system: a**model**

Ola-Olu A. Daini

June 1982 **Proceedings of the 1982 ACM SIGMOD international conference on Management of data SIGMOD '82****Publisher:** ACM Press

Full text available:

[pdf\(786.66 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Numerical databases arise in many scientific applications to keep track of large sparse and dense matrices. Unlike the many matrix data storage techniques available for incore manipulation, very large matrices are currently limited to a few compact storage schemes on secondary devices, due to the complex underlying data management facilities. This paper presents a model of an approach to numerical database management system that provides generalized facility for promoting physical data independe ...

3 Representing internet streaming media metadata using MPEG-7 multimedia**description schemes**

Eric Rehm

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia****Publisher:** ACM Press

Full text available:

[pdf\(603.51 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: MPEG-7, multimedia, search engine, streaming media

4 [CACTIS: a database system for specifying functionally-defined data](#)

Scott E. Hudson, Roger King

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(828.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Cactis is an object-oriented database management system being developed at the University of Colorado. The data model underlying Cactis is based on a principle we call active semantics, and is designed to support complex functionally-defined data. In an active semantics database, each entity is assigned a behavioral specification which allows it to respond to changes elsewhere in the database. Each entity may be a piece of non-derived or (possibly complex) derived data, and ...

5 [A data definition and mapping language for numerical data bases](#)

Ola-Olu A. Daini, Peter Scheuermann

January 1980 **Proceedings of the ACM 1980 annual conference**

Publisher: ACM Press

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Numerical data bases arise in many scientific applications to keep track of large sparse and dense matrices. Unlike the many matrix data storage techniques available for incore manipulation, very large matrices are currently limited to a few compact storage schemes on secondary devices, due to the complex underlying data management facilities. This paper proposes an approach for generalized numerical database management that would promote physical data independence by relieving users from t ...

6 [Requirements for and evaluation of RMI protocols for scientific computing](#)

Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley, Dennis Gannon

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  [pdf\(306.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

 [Publisher Site](#)

Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component architectures is based on Remote Method Invocation (RMI) protocols that allow one software component to invoke the functionality of another. Examples include Java remote method invocation (Java RMI) and the new Simple Object Access Protocol (SOAP). SOAP has the advantage that many programming languages and component ...

Keywords: Distributed computing, software component systems, communication protocols, RMI, Java, SOAP

7 An interleaving technique for block coding of black-and-white facsimile data

◆ D. Weifang Doong, Huizhu Lu, G. E. Hedrick

◆ April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's****Publisher:** ACM PressFull text available: pdf(756.66 KB) Additional Information: [full citation](#), [references](#), [index terms](#)**8 Model-driven development of Web applications: the AutoWeb system**

◆ Piero Fraternali, Paolo Paolini

◆ October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4**Publisher:** ACM PressFull text available: pdf(6.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

9 Planning text for advisory dialogues: capturing intentional and rhetorical information

Johanna D. Moore, Cécile L. Paris

December 1993 **Computational Linguistics**, Volume 19 Issue 4**Publisher:** MIT PressFull text available: pdf(3.22 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)

To participate in a dialogue a system must be capable of reasoning about its own previous utterances. Follow-up questions must be interpreted in the context of the ongoing conversation, and the system's previous contributions form part of this context. Furthermore, if a system is to be able to clarify misunderstood explanations or to elaborate on prior explanations, it must understand what it has conveyed in prior explanations. Previous approaches to generating multisentential texts have relied ...

10 Status of standards

◆ A. Lyman Chapin

◆ April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2**Publisher:** ACM PressFull text available: pdf(1.79 MB) Additional Information: [full citation](#), [index terms](#)**11 Towards a unified visual database access**

◆ K. Vadaparty, Y. A. Aslandogan, G. Ozsoyoglu

◆ June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2**Publisher:** ACM PressFull text available: pdf(913.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Since the development of QBE, over fifty visual query languages have been proposed to facilitate easy database access. Although these languages have introduced some very useful paradigms, a number of these have some severe limitations, such as: (a) not extending beyond the relational model (b) not considering negation and safety, formally (c) using ad hoc constructs, with no analysis of expressivity or complexity done, etc. Note that visual database access is an imp ...

12 The design and implementation of hierarchical software systems with reusable components



Don Batory, Sean O'Malley

October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 1 Issue 4

Publisher: ACM Press

Full text available: [pdf\(3.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, software design

13 THE USE OF MENTAL MODELS TO ENHANCE HUMAN-COMPUTER INTERACTION



Michael D. Coover

January 1987 **ACM SIGCHI Bulletin**, Volume 18 Issue 3

Publisher: ACM Press

Full text available: [pdf\(219.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The approach taken in this research is to increase the quality of human-computer interaction through having the computer software match or emulate the cognitive representation employed by the user population. We believe that through interacting with users through the users' own cognitive representation of the information or knowledge, the users' perceptions of the interaction will be enhanced. Furthermore, if psychological theories of how users encode and represent knowledge are correct, the qua ...

14 Garbage collection for strongly-typed languages using run-time type reconstruction



Shail Aditya, Christine H. Flood, James E. Hicks

July 1994 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1994 ACM conference on LISP and functional programming LFP '94**, Volume VII Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.40 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Garbage collectors perform two functions: live-object detection and dead-object reclamation. In this paper, we present a new technique for live-object detection based on run-time type reconstruction for a strongly typed, polymorphic language. This scheme uses compile-time type information together with the run-time tree of activation frames to determine the exact type of every object participating in the computation. These reconstructed types are then used ...

15 A CAUSAL MODEL OF HUMAN VS. COMPUTER INTERACTION PREFERENCE



FOR NAIIVE USERS

Michael D. Coover

January 1987 **ACM SIGCHI Bulletin**, Volume 18 Issue 3

Publisher: ACM Press

Full text available:  pdf(305.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The literature has suggested several factors which should be related to if an individual prefers to interact with a computer or another person for any specific task. These factors include, among others, the amount of computer experience an individual has, various personality traits, attitudes toward computers or technology, the capabilities of the computer system, and perceived aspects of the task. To date, however, there have been no attempts to develop and test causal models to explain these v ...

16 Design of an external schema facility to define and process recursive structures

 Eric K. Clemons

June 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The role of the external schema is to support user views of data and thus to provide programmers with easier data access. This author believes that an external schema facility is best based on hierarchies, both simple and recursive. After a brief introduction to an external schema facility to support simple hierarchical user views, the requirements for a facility for recursive hierarchies are listed and the necessary extensions to the external schema definition language are offered. < ...

Keywords: ANSI SPARC architectures, external schemata, recursive data structures, user views

17 Database method schemas and object creation

 Karl Denninghoff, Victor Vianu

August 1993 **Proceedings of the twelfth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The expressiveness of various object-oriented languages is investigated with respect to their ability to create new objects. We focus on database method schemas (dms), a model capturing the data manipulation capabilities of a large class of deterministic methods in object-oriented databases. The results clarify the impact of various language constructs on object creation. Several new constructs based on expanded notions of deep equality are introduced. In particular, we provide a tractable ...

18 Database Reorganization—Principles and Practice

 Gary H. Sockut, Robert P. Goldberg

December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

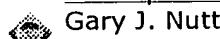
Publisher: ACM Press

Full text available:  pdf(1.89 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 KDD-Cup 2000 organizers' report: peeling the onion

Ron Kohavi, Carla E. Brodley, Brian Frasca, Llew Mason, Zijian Zheng

December 2000

ACM SIGKDD Explorations Newsletter, Volume 2 Issue 2**Publisher:** ACM PressFull text available: pdf(855.71 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)**Keywords:** KDD-Cup, best practices, competition, data cleansing, data mining, e-commerce, insight, peeling the onion, real-world data**20 An experimental distributed modeling system**Gary J. Nutt April 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 2**Publisher:** ACM PressFull text available: pdf(1.69 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

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Eric Rehm

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Publisher: ACM Press

Full text available: [pdf\(603.51 KB\)](#) Additional Information: full citation, abstract, references, index terms

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Keywords: MPEG-7, multimedia, search engine, streaming media

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Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.94 MB\)](#) Additional Information: full citation, abstract, references, citations, index terms

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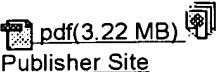
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December 1993 **Computational Linguistics**, Volume 19 Issue 4

Publisher: MIT Press

Full text available:



[pdf\(3.22 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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4 [Query processing in a multimedia document system](#)

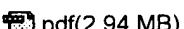


Elisa Bertino, Fausto Rabitti, Simon Gibbs

◆ January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:



[pdf\(2.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

5 [Fast detection of communication patterns in distributed executions](#)

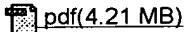


Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:



[pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 [Lore: a database management system for semistructured data](#)

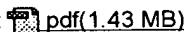


Jason McHugh, Serge Abiteboul, Roy Goldman, Dallas Quass, Jennifer Widom

◆ September 1997 **ACM SIGMOD Record**, Volume 26 Issue 3

Publisher: ACM Press

Full text available:



[pdf\(1.43 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Lore (for Lightweight Object Repository) is a DBMS designed specifically for managing semistructured information. Implementing Lore has required rethinking all aspects of a DBMS, including storage management, indexing, query processing and optimization, and user interfaces. This paper provides an overview of these aspects of the Lore system, as well as other novel features such as dynamic structural summaries and seamless access to data from external sources.

7 [Coyote: a system for constructing fine-grain configurable communication services](#)



Nina T. Bhatti, Matti A. Hiltunen, Richard D. Schlichting, Wanda Chiu

◆ November 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 4

Publisher: ACM Press

Full text available:  pdf(290.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Communication-oriented abstractions such as atomic multicast, group RPC, and protocols for location-independent mobile computing can simplify the development of complex applications built on distributed systems. This article describes Coyote, a system that supports the construction of highly modular and configurable versions of such abstractions. Coyote extends the notion of protocol objects and hierarchical composition found in existing systems with support for finer-grain microprotocol ob ...

Keywords: x-kernal, configurable sevices, customization, event handlers, event-driven execution, membership, microprotocols, mobile computing, modularity, multicast, protocols, remote procedure call

8 Aggregation and generalization hierarchies in office automation 

M. Bever, D. Ruland

April 1988 **ACM SIGOIS Bulletin , Proceedings of the ACM SIGOIS and IEEECS TC-OA 1988 conference on Office information systems**, Volume 9 Issue 2-3

Publisher: ACM Press

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Integrated database support is an essential part in Office Automation. Because of the variety of objects, their relationships and operations, more sophisticated data modelling concepts such as aggregation and long fields, cross references, aggregation hierarchies, and generalizations are needed. In this paper, we show their importance to Office Automation. Because long fields and aggregation are already supported by existing data models, we focus on the two data abstraction concepts: aggreg ...

9 Composable ad hoc location-based services for heterogeneous mobile clients 

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(403.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Bibliography of recent publications on computer communication 

Martha Steenstrup

January 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.02 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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11 The FINITE STRING Newsletter: Abstracts of current literature 

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available:  pdf(6.15 MB)  Additional Information: [full citation](#)
[Publisher Site](#)

12 Special issue on spatial database systems: Management of multidimensional discrete data

Peter Baumann

October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(2.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Spatial database management involves two main categories of data: vector and raster data. The former has received a lot of in-depth investigation; the latter still lacks a sound framework. Current DBMSs either regard raster data as pure byte sequences where the DBMS has no knowledge about the underlying semantics, or they do not complement array structures with storage mechanisms suitable for huge arrays, or they are designed as specialized systems with sophisticated imaging functionality, but n ...

Keywords: Multimedia database systems, image database systems, spatial index, tiling

13 LH*RS: a high-availability scalable distributed data structure using Reed Solomon Codes

Witold Litwin, Thomas Schwarz

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  pdf(155.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

LH*RS is a new high-availability Scalable Distributed Data Structure (SDDS). The data storage scheme and the search performance of LH*RS are basically these of LH*. LH*RS manages in addition the parity information to tolerate the unavailability of k > 1 server sites. The value of k scales with the file, to prevent the reliability decline. The parity calculus uses the Reed -Solomon Codes. The storage and access performance over ...

Keywords: Reed-Solomon Codes, SDDS, high-availability, scalable

14 Special issue on persistent object systems: Tigukat: a uniform behavioral objectbase management system

M. Tamer Özsu, Randal Peters, Duane Szafron, Boman Irani, Anna Lipka, Adriana Muñoz
July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(2.78 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe the TIGUKAT objectbase management system, which is under development at the Laboratory for Database Systems Research at the University of Alberta. TIGUKAT has a novel object model, whose identifying characteristics include a purely behavioral semantics and a uniform approach to objects. Everything in the system, including types, classes, collections, behaviors, and functions, as well as meta-information, is a first-class object with well-defined behavior. In this way, the model abstr ...

Keywords: database management, objectbase management, persistent storage system, reflective system

15 Towards a canonical specification of document structures

Michael G. Hinckley, Tony Cahill

November 1992 **Proceedings of the 10th annual international conference on Systems documentation**

Publisher: ACM Press

Full text available: [pdf\(989.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**16 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment**

Barron C. Housel, George Samaras, David B. Lindquist

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(338.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

17 An approach to image retrieval from large image databases

F. Rabitti, P. Stanchev

November 1987 **Proceedings of the 10th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: [pdf\(873.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we address the problem of retrieving images from large image databases, giving a partial description of the image content. This approach allows a limited automatic analysis for image belonging to a domain described in advance to the system using a formalism based on fuzzy sets. The image query processing is based on special access structures generated from the image analysis process.

18 A system for constructing configurable high-level protocols

Nina T. Bhatti, Richard D. Schlichting

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New distributed computing applications are driving the development of more specialized protocols, as well as demanding greater control over the communication substrate. Here, a network subsystem that supports modular, fine-grained construction of high-level protocols such as atomic multicast and group RPC is described. The approach is based on extending the standard hierarchical model of the x-kernel with composite protocols in which micro-protocol objects are composed within a standard r ...

19 TrIAs: trainable information assistants for cooperative problem solving

Mathias Bauer, Dietmar Dengler

 **April 1999 Proceedings of the third annual conference on Autonomous Agents** **Publisher:** ACM PressFull text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**20 An architecture for WWW-based hypercode environments**  Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang **May 1997 Proceedings of the 19th international conference on Software engineering** **Publisher:** ACM PressFull text available:  [pdf\(1.84 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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